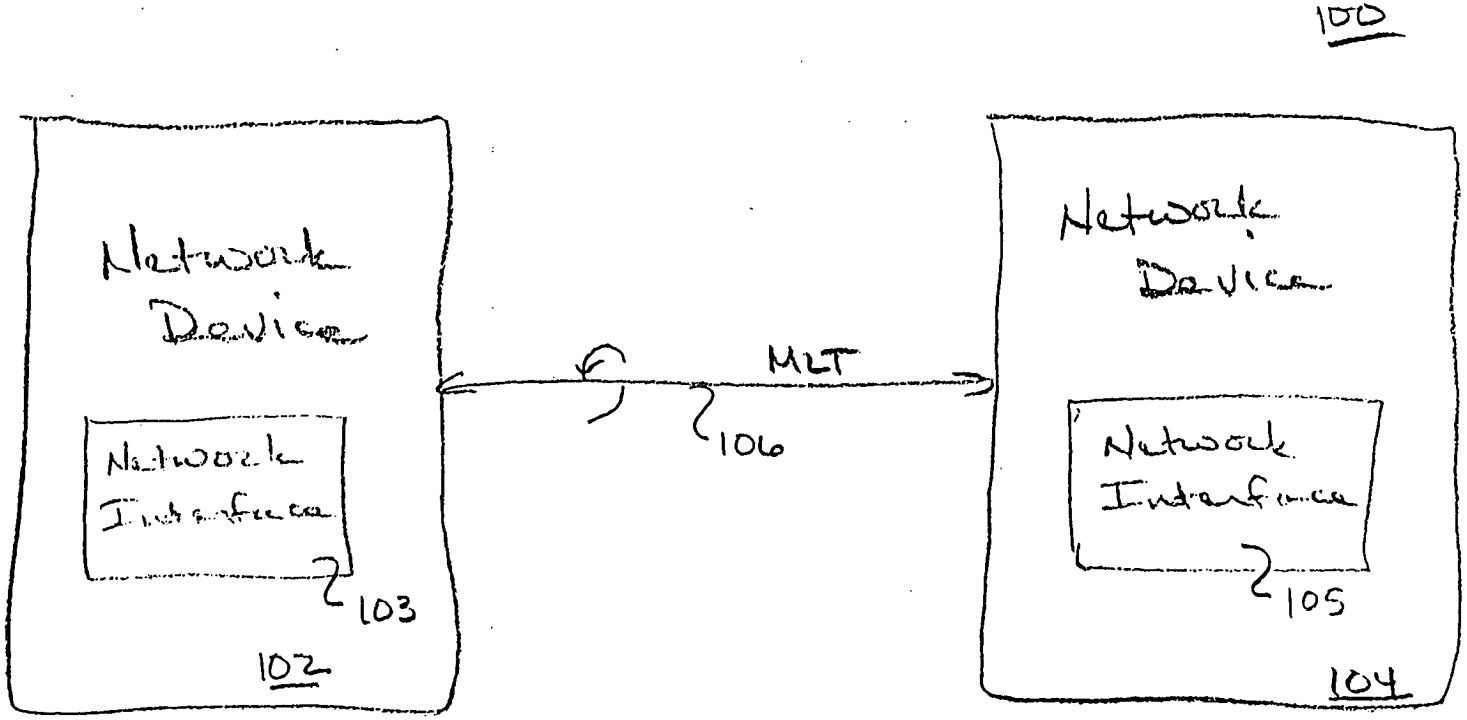
FIG. 1



0921006.121799

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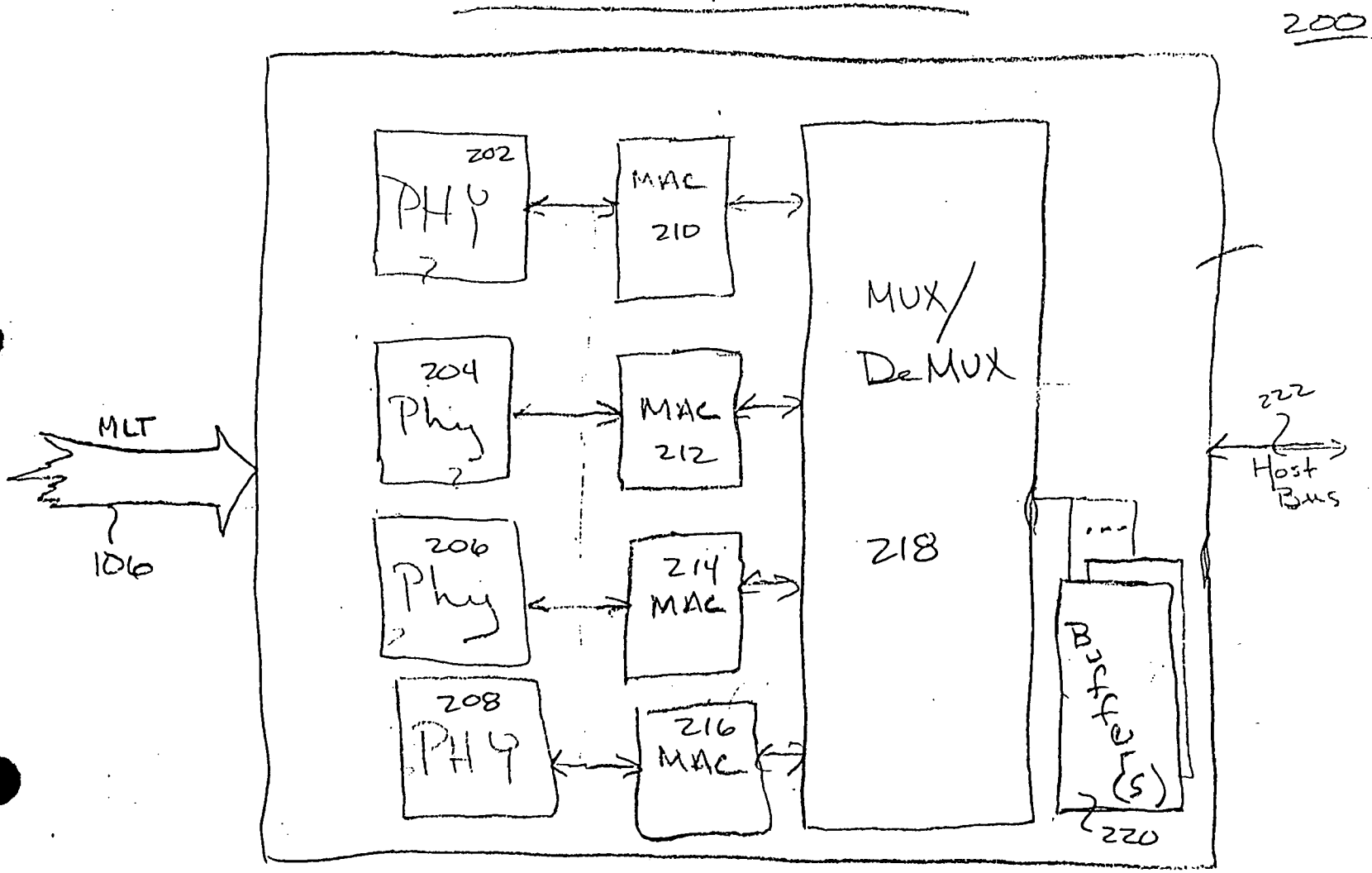
FIG. 2



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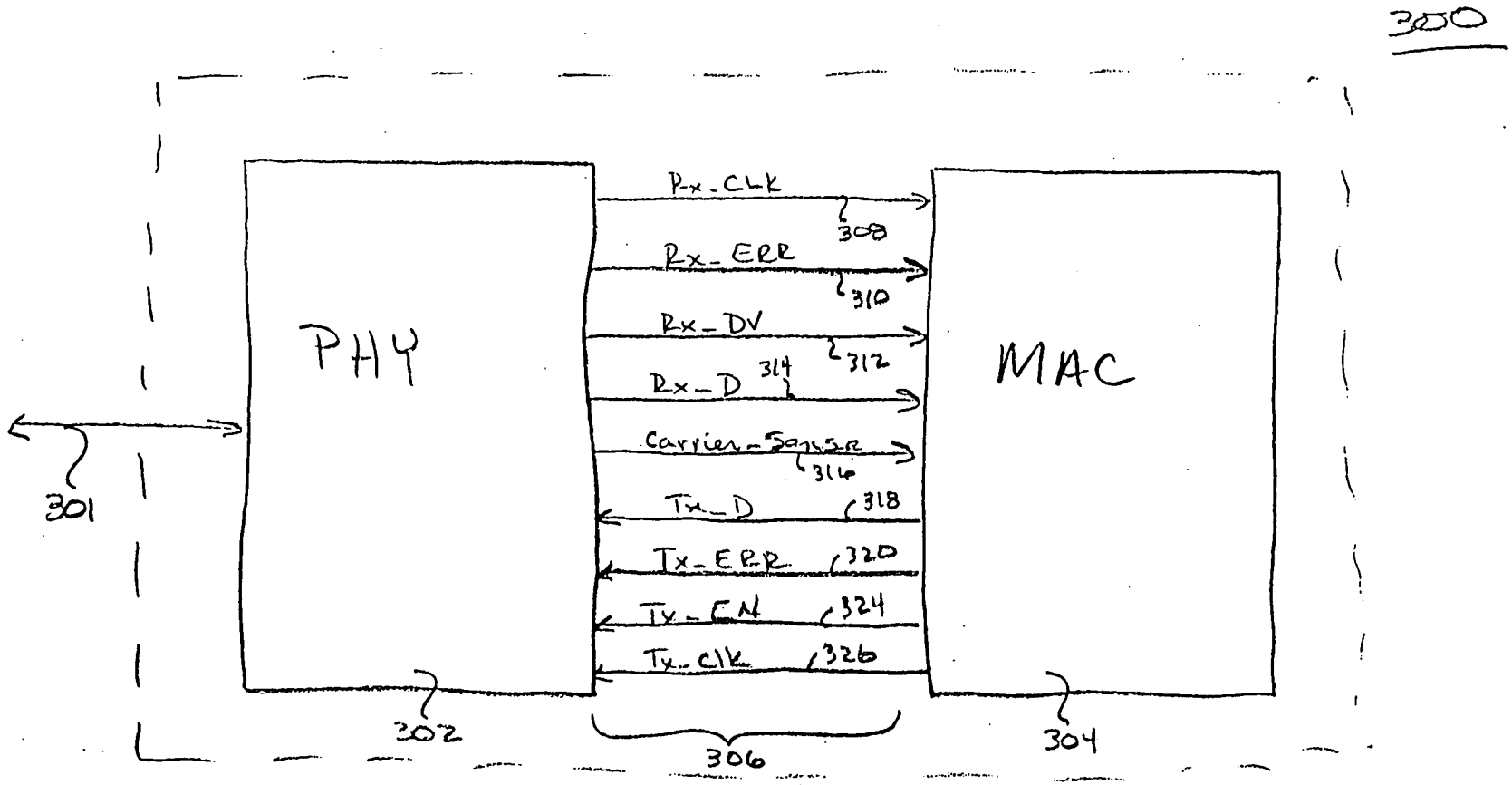

FIG. 3

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FIG. 4

400

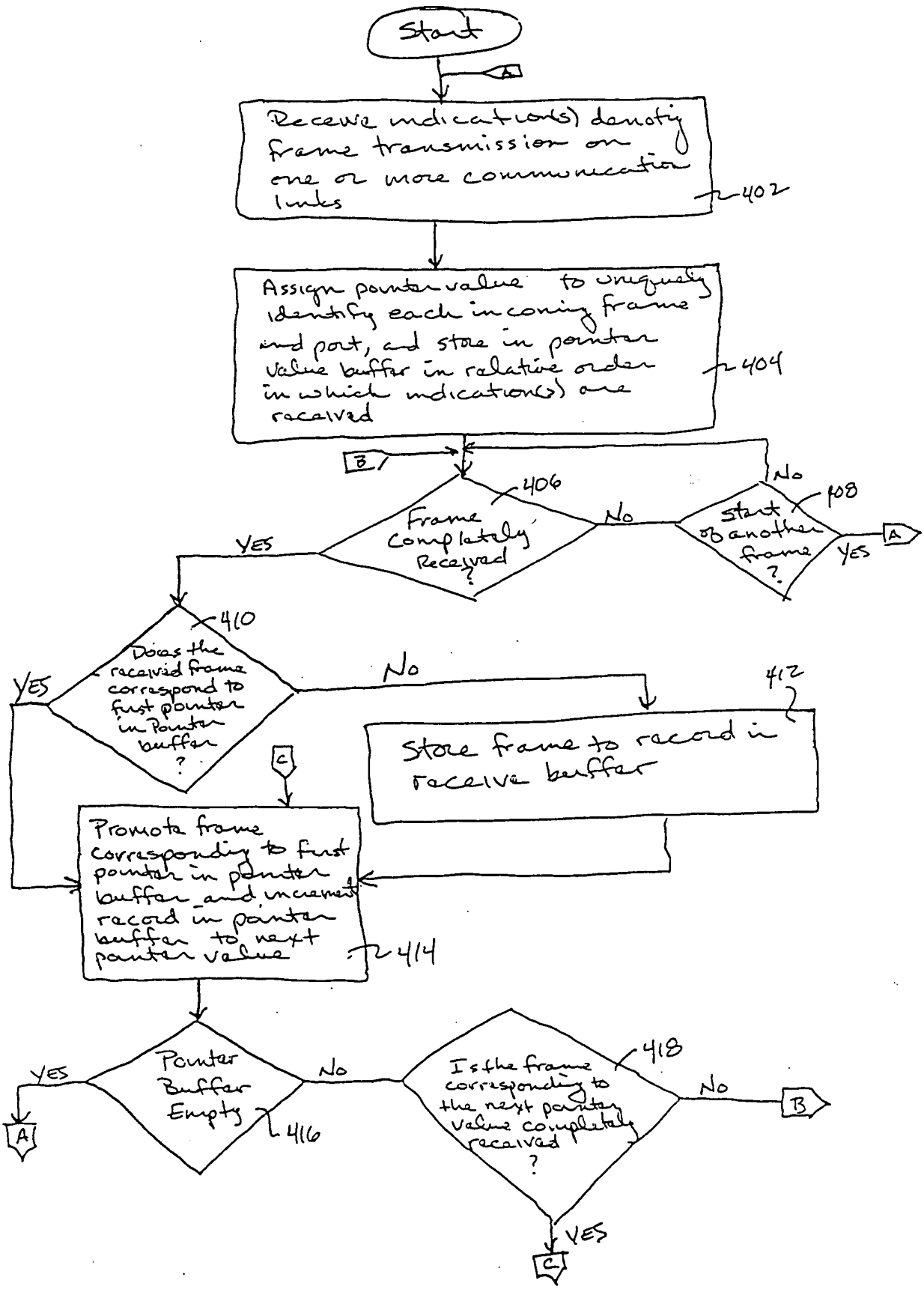

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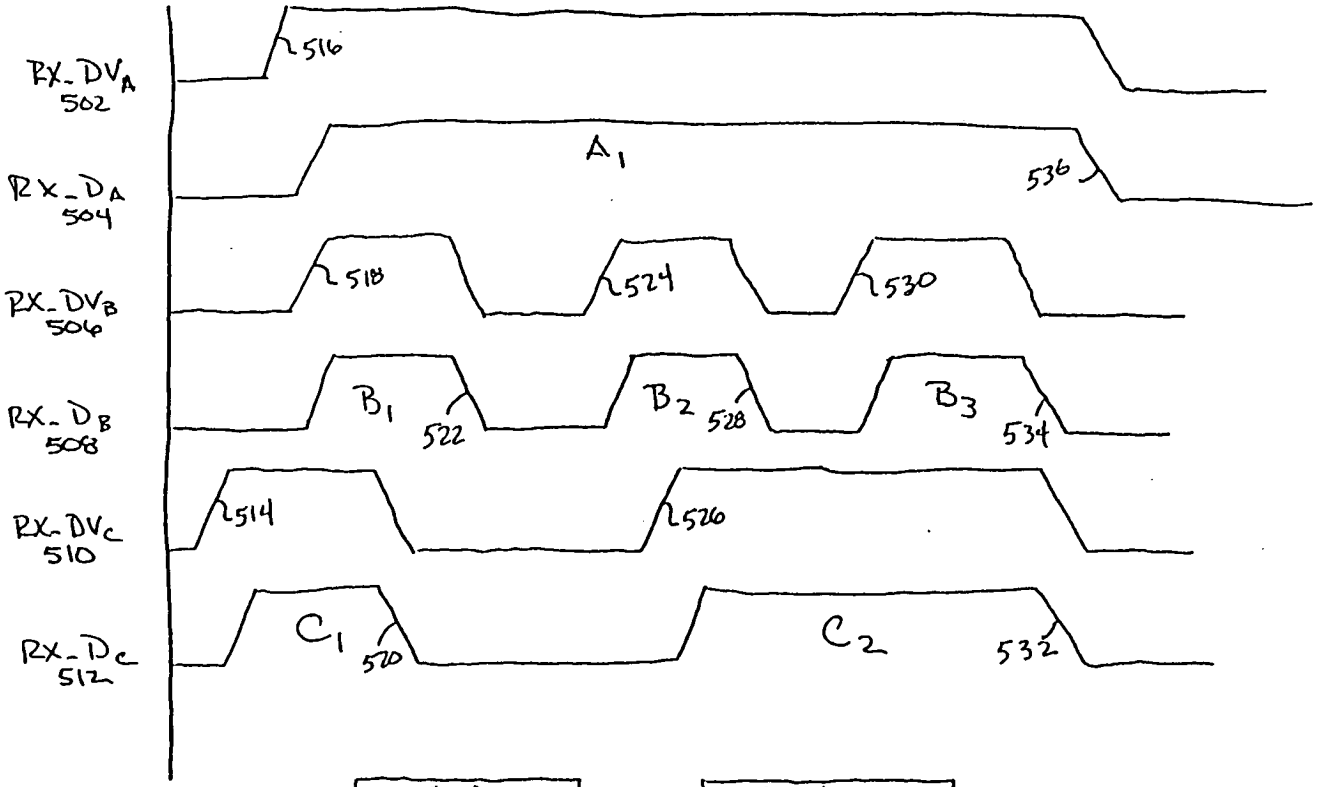
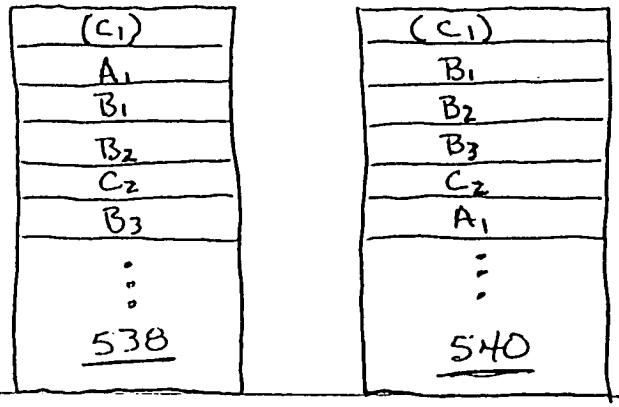
FIG. 5





(C1) Denotes frame C1 promoted upon complete receipt.

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FIG. 6

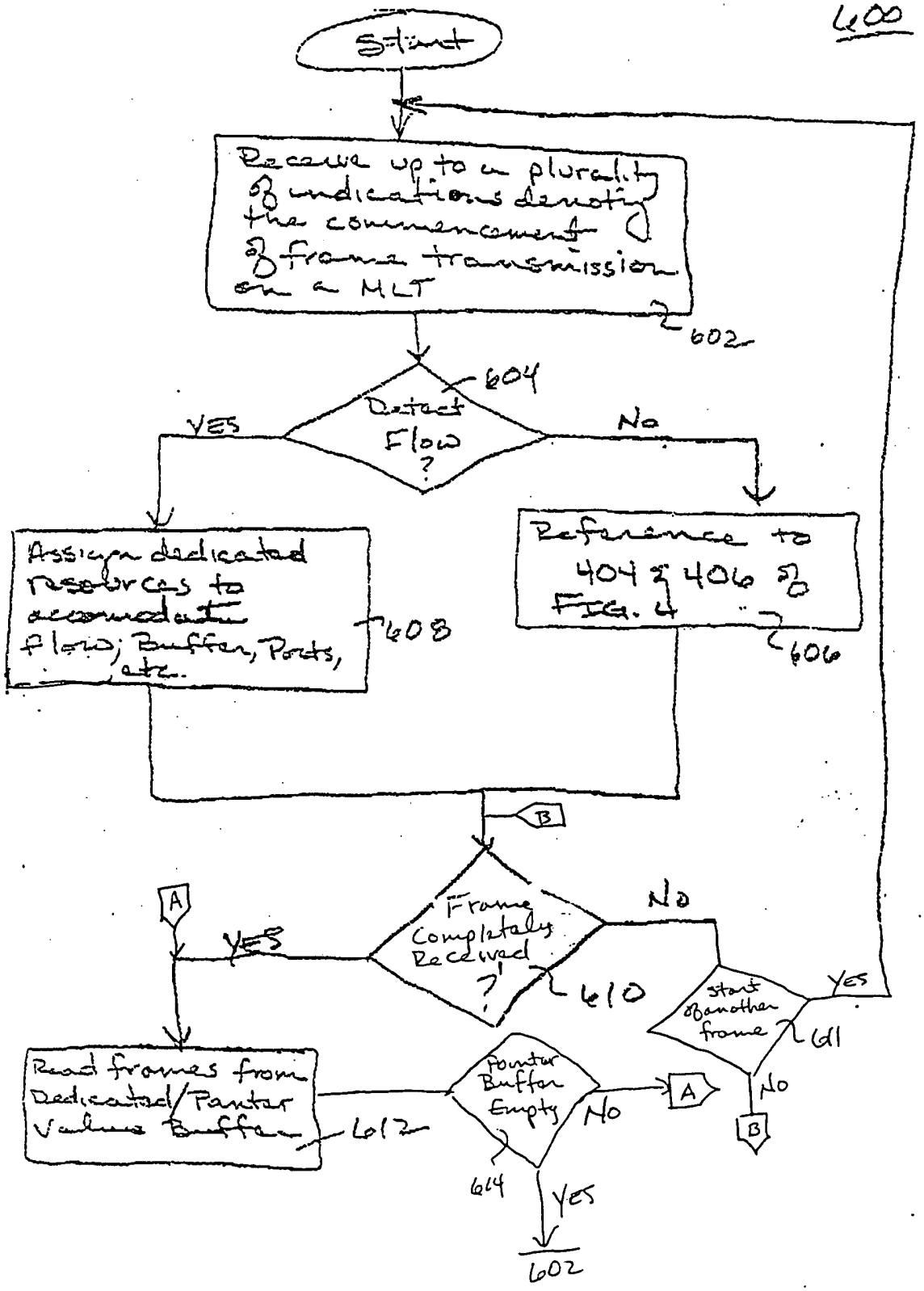
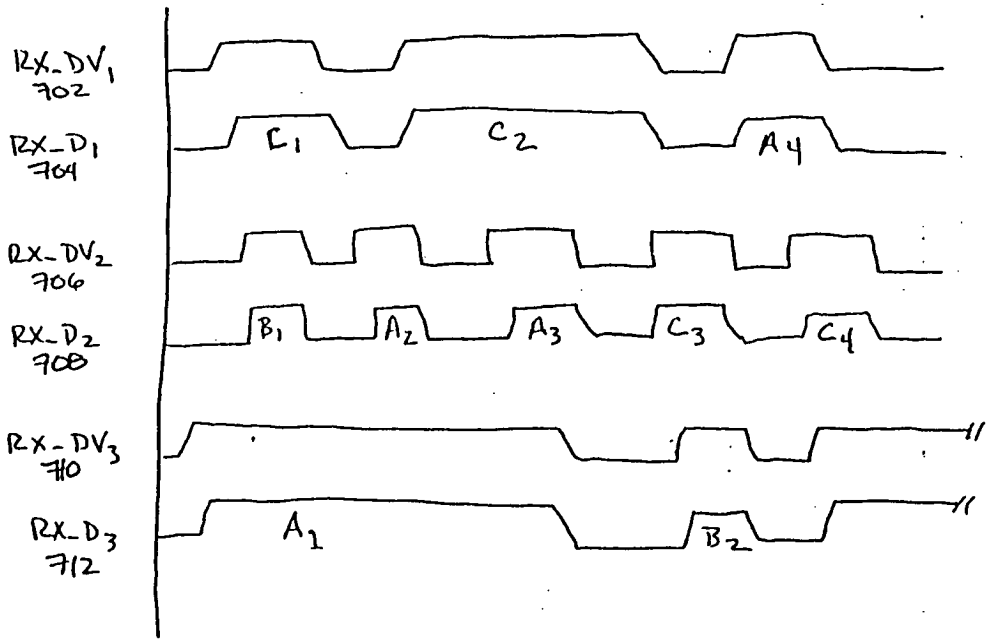

600
Start
Receive up to a plurality of indications denoting the commencement of frame transmission on a MLT
602
Detect Flow ?
604
YES
No
Assign dedicated resources to accomodate flow; Buffer, Ports, etc.
608
Reference to 404 & 406 of FIG. 4
606
B
A
Frame Completely Received ?
610
YES
No
Start another frame
611
YES
No
Read frames from Dedicated Pointer Value Buffer
612
Pointer Buffer Empty
No
A
614
YES
B
602

FIG. 7

700



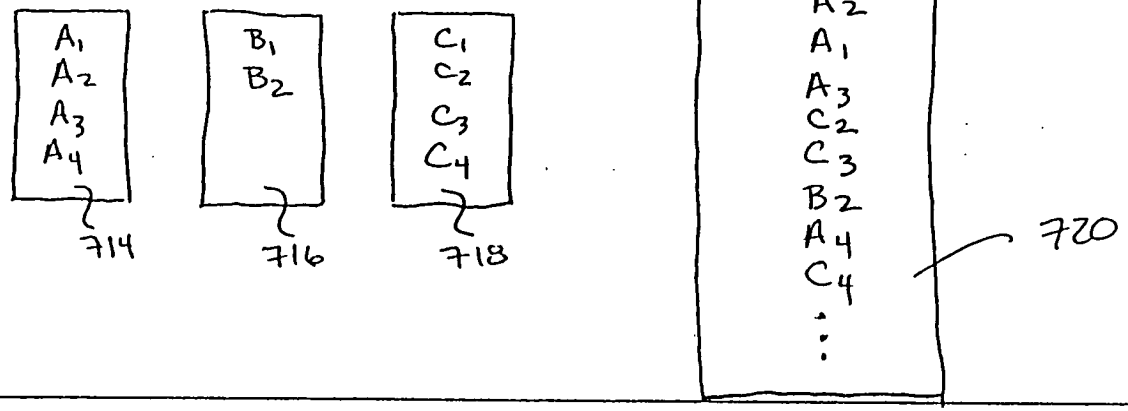


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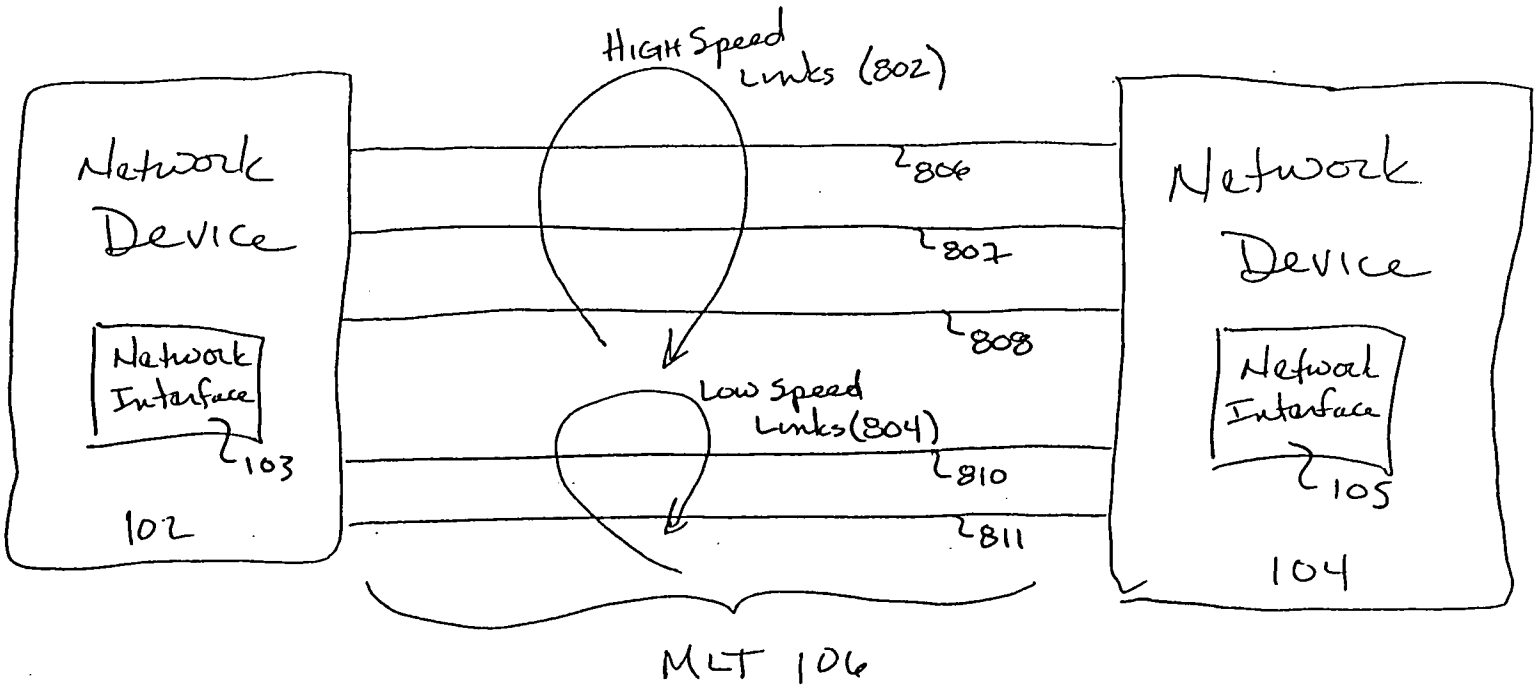
FIG. 8



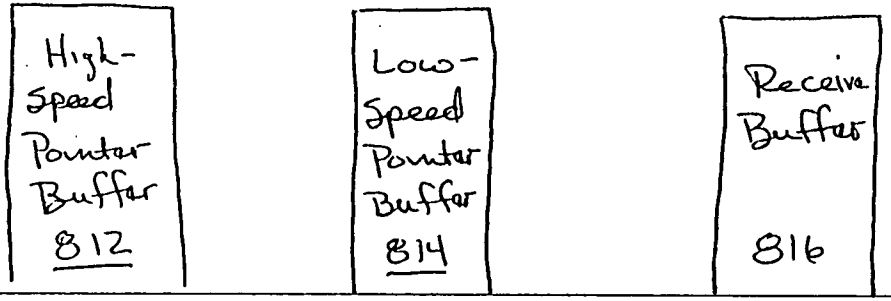


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FIG. 9

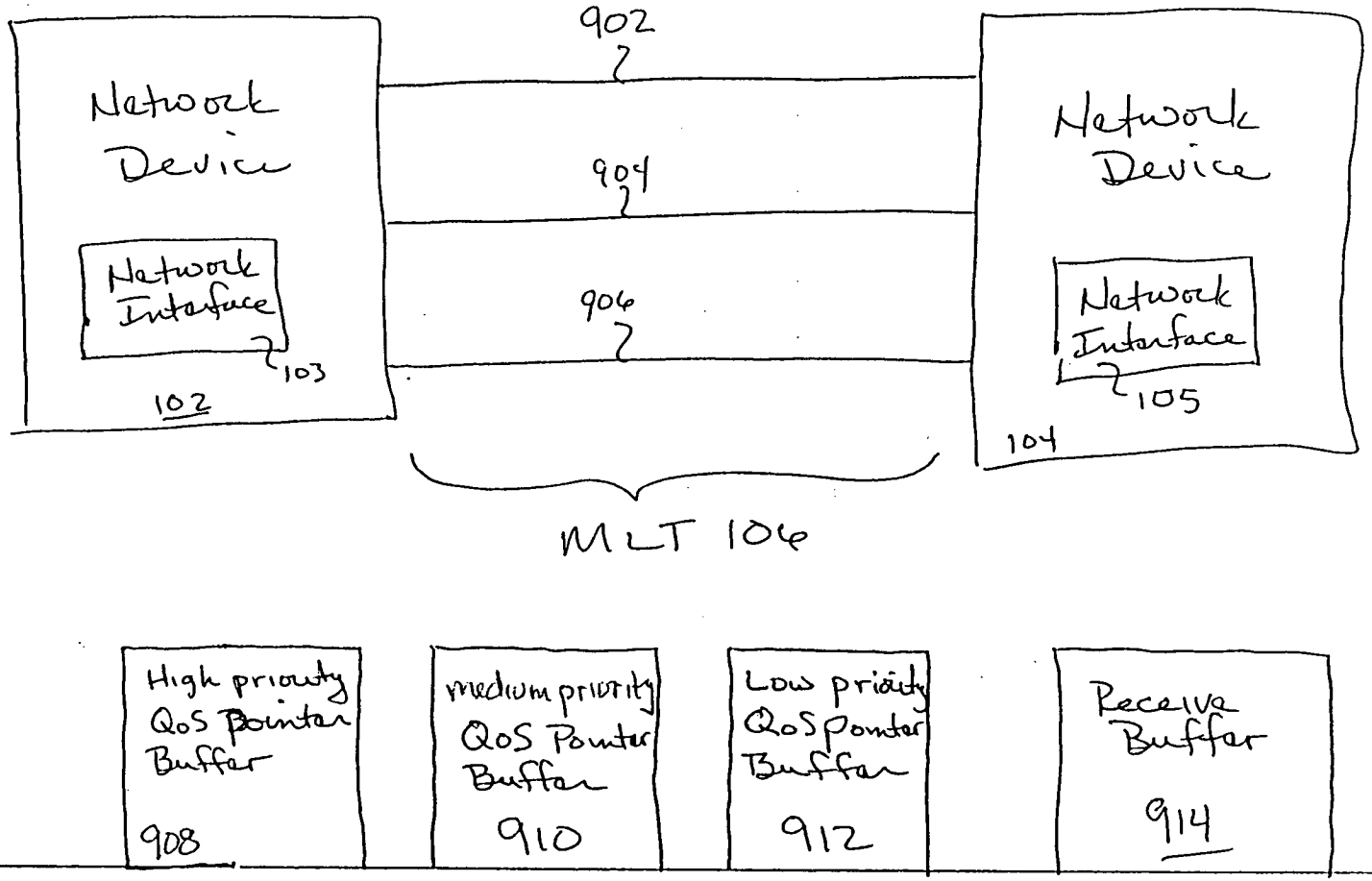

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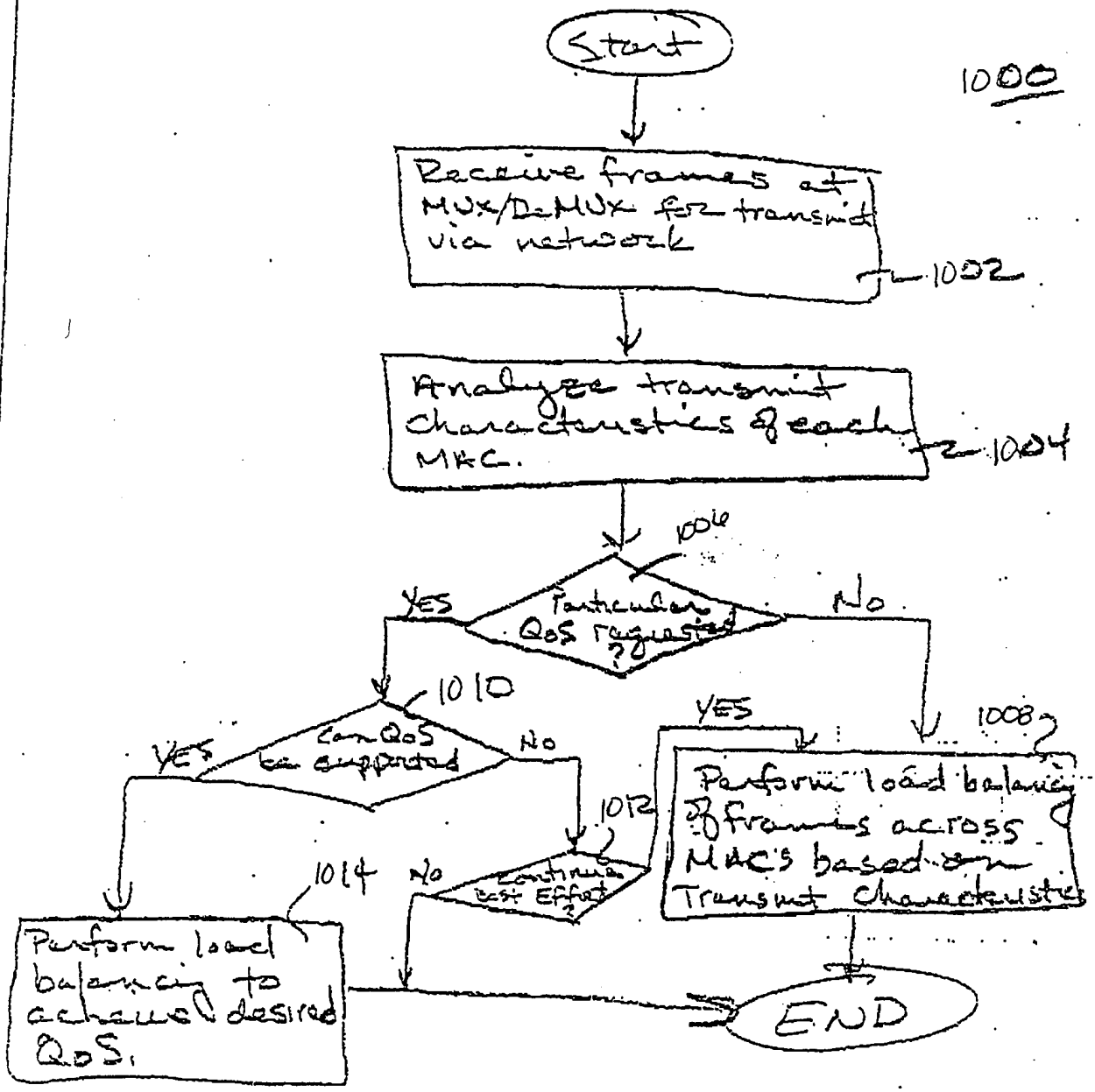
FIG. 10


Start
1000
Receive frames at MUX/DeMUX for transmit via network
1002
Analyze transmit characteristics of each MAC.
1004
1006
Particular QoS requested ?
YES
NO
1010
Can QoS be supported
YES
NO
1008
Perform load balancing of frames across MAC's based on Transmit Characteristics
1012
Continue best Effort
NO
1014
Perform load balancing to achieve desired QoS.
END